Appl. No. 09/698,728 Amdt. Dated July 13, 2004 Reply to Office action of April 20, 2004 Altorney Docket No. P12994-US1 EUS/J/P/04-2042

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-8. (Cancelled).
- 9. (Currently Amended) A method for conveying a data packet from a first node to a second node comprising the steps of:

reading a first VPI and a first VCI from said data packet at said first node; storing said first VPI and said first VCI in a computer memory location;

simultaneously searching for a second VPI and a second VCI in parallel in a plurality of subtables, one subtable in said plurality of subtables containing said second VPI[[,]] and said second VCI matching said first VPI and said first VCI:

replacing said first VPI and said first VCI in said data packet with a third VPI and a third VCI, said third VPI and said third VCI associated with said second VPI and said second VCI; and

conveying said data packet to said second node;

wherein said plurality of subtables are constructed by dividing a first table, said first table containing said second VPI and said second VCI and said third VPI and said third VCI associated with said second VPI and said second VCI, and wherein the number of said plurality of subtables is determined by dividing a number of entries in said first table by a value representing the time it takes for said data packet to pass through said first node.

- 10. (Original) The method of Claim 9, further comprising the steps of: storing said first VPI and said first VCI as a first VPI/VCI pair, storing said second VPI and said second VPI and said second VPI/VCI pair, and storing said third VPI and said third VPI as a third VPI/VCI.
 - 11. (Cancelled).

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- 12. (Currently Amended) The method of Claim [[11]] 9, wherein said first VPI and said first VPI and said second VPI are stored as a first VPI/VCI pair, said second VPI and said second VPI are stored as a second VPI/VCI pair, and said third VPI and said third VPI are stored as a third VPI/VCI pair.
 - 13. (Cancelled).
 - 14. (Currently Amended) An ATM network, comprising:
 - a plurality of customer premise nodes,
 - a plurality of network nodes;
- a plurality of physical links connecting said customer premise nodes to said network nodes; and

at least one data packet transmitted through a plurality of physical links between said plurality of customer premise nodes and said plurality of network nodes, said data packet including a first VPI and a first VCI, said first VPI and said first VCI replaced by a second VPI and a second VCI when said data packet travels through a first network node in said plurality of network nodes, said second VPI and said second VCI determined by searching a plurality of subtables in parallel, with one subtable in said plurality of subtables containing a third VPI and a third VCI associated with said second VPI and said second VCI, said third VPI and said third VCI matching said first VPI and sald first VCI;

wherein said plurality of subtables are constructed by dividing up a first table containing a third VPI and a third VCI associated with said second VPI and said second VCI, said third VPI and said third VCI matching said first VPI and said first VCI, and wherein the number of said plurality of subtables is obtained by the number of entries in said first table divided by a value representing the time it takes said data packet to travel through said first network node in said plurality of network nodes.

15. (Original) The ATM network of Claim 14, wherein said first VPI and said first VPI and said second VPI and said

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second VCI are stored as a second VPI/VCI pair, and said third VPI and said third VCI are stored as a third VPI/VCI pair,

- 16. (Cancelled).
- 17. (Currently Amended) The ATM network of Claim [[16]] 14, wherein said first VPI and said first VCI are stored as a first VPI/VCI pair, said second VPI and said second VCI are stored as a second VPI/VCI pair, and said third VPI and said third VCI are stored as a third VPI/VCI pair.
 - 18. (Cancelled).

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